Earthquake Shaking — Green Alert

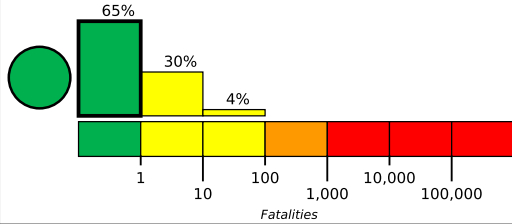# M 3.9, 1km SW of Round Valley, CA

Origin Time: 2022-03-31 02:05:26 UTC (Wed 19:05:26 local)
Location: 37.4012° N 118.6167° W Depth: 16.5 km

PAGER
Version 8

Created: 2 hours, 39 minutes after earthquake

Estimated Fatalities

65%
30%
4%

1   10   100   1,000   10,000   100,000
Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.
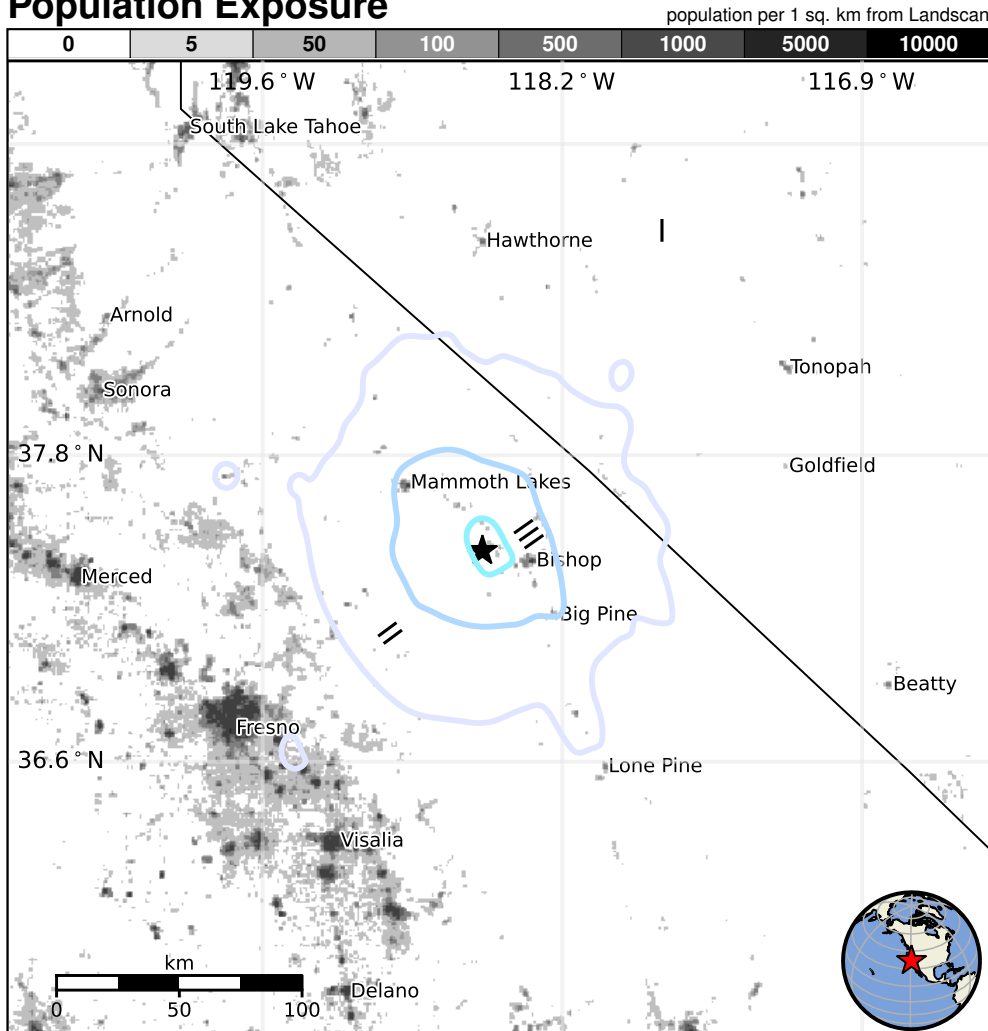
Estimated Economic Losses

65%
30%
4%

1   10   100   1,000   10,000   100,000
USD (Millions)

Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	2,435k	150k	3k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE — Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
POTENTIAL DAMAGE — Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

0	5	50	100	500	1000	5000	10000

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	356	5.6	VI(1,267k)	1
2003-12-22	295	6.6	VI(8k)	2
1971-02-09	334	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	West Bishop	3k
III	Dixon Lane-Meadow Creek	3k
III	**Bishop**	**4k**
III	**Mammoth Lakes**	**8k**
III	**Big Pine**	**2k**
II	Minkler	1k
II	Clovis	96k
I	**Fresno**	**495k**
I	**Visalia**	**124k**
I	**Merced**	**79k**
I	Carson City	55k

bold cities appear on map.   (k = x1000)